

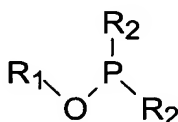
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Original) A method for preparing phosphoroamidite with a reagent of a compound represented by the general formula [1],

[General Formula 1]

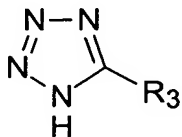


[1]

wherein R₁ represents an alkyl group having 1 to 4 carbon atoms, an alkyl group having 1 to 4 carbon atoms substituted by a cyano group or an alkyl group having 1 to 4 carbon atoms substituted by a silyl group; and R₂ represents an amino group substituted by an alkyl group having 2 to 5 carbon atoms or an alicyclic amino group having 4 to 7 carbon atoms,

wherein a substituted tetrazole represented by the general formula [2] is used as a reaction activator,

[General Formula 2]

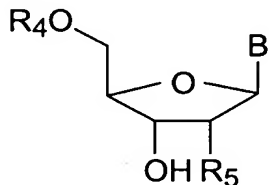


[2]

wherein R_3 represents an alicyclic alkyl group having 1 to 6 carbon atoms, an aryl group substituted by an alkyl group having 1 to 4 carbon atoms or an unsubstituted aryl group.

2. (Original) The preparation method according to claim 1, wherein phosphoroamidite represented by the general formula [4] is synthesized by using a nucleoside derivative represented by the general formula [3] as a raw material,

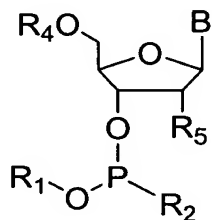
[General Formula 3]



[3]

wherein R_4 represents a protecting group of a hydroxyl group; R_5 represents a hydrogen atom, a halogen atom, an alkyl group having 1 to 4 carbon atoms or a substituted hydroxyl group; and B represents a nucleic acid base or a protected nucleic acid base,

[General Formula 4]



[4]

wherein R₁, R₂, R₄, R₅ and B represent the same as those described above.

3. (Currently Amended) The preparation method according to claim [[1 or]] 2, wherein R₃ in the general formula [2] is a phenyl group.

4. (Currently Amended) The preparation method according to ~~any one of claims 1 to~~ claim 3, wherein, in the general formula [1], R₁ is a cyanoethyl group and R₂ is a diisopropylamino group.

5. (Currently Amended) The preparation method according to ~~any one of claims 2 to~~ claim 4, wherein, in the general formulae [3] and [4], R₄ is a 4,4'-dimethoxytrityl group, R₅ is a hydrogen atom and B is a 1-thymine group, an N4-benzoyl-1-cytosine group, an N6-benzoyl-9-adenine group or an N2-isobutyryl-9-guanine group.

6. (New) The preparation method according to claim 1, wherein R₃ in the general formula [2] is a phenyl group.

7. (New) The preparation method according to claim 6, wherein, in the general formula [1], R₁ is a cyanoethyl group and R₂ is a diisopropylamino group.

8. (New) The preparation method according to claim 2, wherein, in the general formula [1], R₁ is a cyanoethyl group and R₂ is a diisopropylamino group.

9. (New) The preparation method according to claim 1, wherein, in the general formula [1], R₁ is a cyanoethyl group and R₂ is a diisopropylamino group.

10. (New) The preparation method according to claim 9, wherein, in the general formulae [3] and [4], R₄ is a 4,4'-dimethoxytrityl group, R₅ is a hydrogen atom and B is a 1-thymine group, an N4-benzoyl-1-cytosine group, an N6-benzoyl-9-adenine group or an N2-isobutyryl-9-guanine group.

11. (New) The preparation method according to claim 8, wherein, in the general formulae [3] and [4], R₄ is a 4,4'-dimethoxytrityl group, R₅ is a hydrogen atom and B is a 1-thymine group, an N4-benzoyl-1-cytosine group, an N6-benzoyl-9-adenine group or an N2-isobutyryl-9-guanine group.

12. (New) The preparation method according to claim 7, wherein, in the general formulae [3] and [4], R₄ is a 4,4'-dimethoxytrityl group, R₅ is a hydrogen atom and B is a 1-thymine group, an N4-benzoyl-1-cytosine group, an N6-benzoyl-9-adenine group or an N2-isobutyryl-9-guanine group.

13. (New) The preparation method according to claim 6, wherein, in the general formulae [3] and [4], R₄ is a 4,4'-dimethoxytrityl group, R₅ is a hydrogen atom and B is a 1-thymine group, an N4-benzoyl-1-cytosine group, an N6-benzoyl-9-adenine group or an N2-isobutyryl-9-guanine group.

14. (New) The preparation method according to claim 3, wherein, in the general formulae [3] and [4], R₄ is a 4,4'-dimethoxytrityl group, R₅ is a hydrogen atom

and B is a 1-thymine group, an N4-benzoyl-1-cytosine group, an N6-benzoyl-9-adenine group or an N2-isobutyryl-9-guanine group.

15. (New) The preparation method according to claim 2, wherein, in the general formulae [3] and [4], R₄ is a 4,4'-dimethoxytrityl group, R₅ is a hydrogen atom and B is a 1-thymine group, an N4-benzoyl-1-cytosine group, an N6-benzoyl-9-adenine group or an N2-isobutyryl-9-guanine group.